## Application No.: 09/807,947

a resistance layer on the dielectric substance and comprising a polycrystalline layer of a material selected from the group consisting of SiC, SiGe and SiGeC.



- 4. (New) The resistor of claim 3, wherein the resistance layer is doped with boron.
- 5. (New) The resistor of claim 3, wherein the substrate contains an element selected from the group consisting of carbon and germanium.
- 6. (New) The resistor of claim 3, wherein the resistance layer is embedded in the dielectric substance.
- 7. (New) A method of fabricating an integrated high-ohmic polycrystalline silicon, comprising the steps of:

providing a substrate;

precipitating a dielectric substance on the substrate;

precipitating on the dielectric substance a layer of material selected from the group consisting of SiC, SiGe, and SiGeC;

further precipitating the dielectric substance over the layer; and providing metallic contacts on the layer.

- 8. (New) The method of claim 7, wherein the layer is polycrystalline.
- 9. (New) The method of claim 7, wherein the layer is amorphous.
- 10. (New) The method of claim 7, wherein the layer is doped with boron.